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Baltimore, MD.



Costiveness

Becomes chronic, if the proper mode of treatment is not adopted. All harsh and drastic purgatives only tend to weaken the bowels and render cure next to impossible. The safest and most effective aperient is Ayer's Pills, the use of which restores the regular action of the bowels and strengthens the whole digestive canal.

"Having been subject, for years, to constipation, without being able to find much relief, I at last tried Ayer's Pills, and I deem it both a duty and a pleasure to testify that I have derived great benefit from their use. For over two years past I have taken one of these pills every night before retiring. I would not be without them."—G. W. Bowinan, 26 East Main st., Carlisle, Pa.

"I have found in Ayer's Pills, an invaluable remedy for constipation, biliousness, and kindred disorders, peculiar to miasmatic localities. Taken in small and frequent doses, these Pills act well on the liver, aiding it in throwing off malarial poisons, and restoring the natural powers. I could not dispense with the use of Ayer's Pills."—C. F. Alston, Quitman, Texas.

"For ten years I was troubled with constipation, and, until I began to take Ayer's Pills, could find no reliable remedy. A few boxes of Ayer's Pills have entirely cured this chronic ailment."—J. G. Peckham, Osawatomie, Kansas.

"I find no remedy for constipation equal to Ayer's Pills, and I should not consider my medicine chest complete without them."—Capt. J. H. Blake, Steamer Raphael, New York city.

To cleanse and tone the stomach, use

"For years I have been subject to constipation and nervous headaches, caused by derangement of the liver. After taking various remedies, I have become convinced that Ayer's Pills are the best. They invariably restore the liver to healthy action in a very short time; and I am sure my system retains its tone longer after the use of these Pills, than with the use of any other medicine I have ever tried."—H. S. Sledge, Weimar, Texas.

"When I feel the need of a cathartic, I take Ayer's Pills, and find them to be more effective than any other purgative medicine."—Mrs. B. C. Grubb, Burwellville, Va.

"I can recommend Ayer's Pills above all others, having long proved their value as a cathartic for myself and family."—J. T. Hess, Leithsville, Pa.

"For eight years I was afflicted with constipation, which at last became so bad that the doctors could do no more for me. Then I began to take Ayer's Pills, and soon the bowels recovered their natural and regular action, so that now I am in excellent health. To all who suffer from costiveness, I can confidently recommend Ayer's Pills."—William H. DeLauett, Dorset, Ont.

Ayer's Pills,

Prepared by DR. J. C. AYER & CO., Lowell, Mass. Sold by all Druggists and Dealers in Medicines.

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How to make the Home Beautiful at small cost is a subject now uppermost in the mind of every lady of good taste. This book is a complete practical instructor in every description of Ladies' Fancy Work, and the only first-class work of the kind ever published at a low price. It contains nearly 300 Illustrations, and the instructions given are so plain and simple that by their aid even a child may make the many beautiful things which the book describes. It gives plain and practical instructions in Drawing, Oil Painting, and making Wax Flowers; likewise all kinds of Fancy Needle Work, Artistic Embroidery, Lace Work, Knitting, Tatting, Crochet and Net Work. It contains designs for Monograms, Initials, Cross Stitch Patterns, Knit Edgings, Embroidered Borders and Corners, Macrame Work, Applique Embroidery, Berlin Work, Java Canvas Work, Tricot and Turlaps, Antique Lace, Beaded Lace, Darned Net Work, Tidies, Lambrequins, Ottomans, Counterpanes, Rugs, Carrige Robes, Brackets, Wall Pockets, Wash Paper Baskets, Work Boxes, Work Baskets, Work Bags, Pen Wipers, Hanging Baskets, Catch-alls, Pin Cushions, Footstools, Handkerchief Boxes, Glove Boxes, Card Baskets, Sofa Pillows, Table Covers, Table Scovis, Screen, Scrap Bases, Hand Bags, Table Mats, Toilet Mats, Lamp Mats, Lamp Shades, Pillow Shams, Pillow Slips, Handbags, Hand Fans, Table Stands, Picture Frames, Slipper Cases, Letter Cases, Toilet Sets, Clothes Brush Holders, Cigar Boxes, Hat Boxes, Sachets, Fancy Purses, Slippers, Dressing Gowns, Music Portfolios, Knife Cases, Fans, Flower Baskets, Plant Stands, Flower Pot Covers, Shawl Dress Trimmings, Window Shades, Feather Work, Spatter Work, Leaf Photographs, and many other things. It is a book that should be in every American household. With it as a guide you may make hundreds of beautiful things for the adornment of your home and for presents to your friends at the most trifling expense, and no employment for ladies is more fascinating and useful. The book will repay its small cost many times over in a very short time. Every lady will be delighted with it. It is a large book of 64 large 3-column pages, with handsome cover, is finely bound, and, as above stated, contains nearly 300 illustrations. It will be sent by mail, post-paid, upon receipt of price, only Twenty-five Cents.

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THE OLDEST AGRICULTURAL JOURNAL IN MARYLAND, AND FOR TEN YEARS THE ONLY ONE.

AND NEW FARM.

Vol. XXVII. BALTIMORE, March 12, 1890. No. II.

POULTRY

and

POULTRY KEEPING,

by

H. R. WALWORTH,

Editor of The Maryland Farm J.

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CHAPTER III.

POULTRY HOUSES.

Poultry houses should be built to accommodate the number you desire to keep together. For the purposes of fertile eggs, or merely for eggs, the best number seems to be thirteen birds. In the case of fertile eggs twelve hens and a cock; otherwise all hens.

It is decidedly best to have the houses

separate and distinct from each other, so that each flock may be wholly by itself. The roof may be continuous for hundreds of feet in length, but the partitions should be solid, or sheds and enclosed houses should alternate for the entire distance.

Each shed and house should have a yard for the flock and a good size for thirteen would be about twelve feet by 20 feet. The house and shed should be ten by twelve feet, which, added to the yard make 12 by 30 feet in the lot.

The size of the house will be 6 ft. by 10 ft., and the size of the shed the same. Height 8 ft. in front and 6 ft. in the rear. Together, they will extend across one end of the yard.

All the materials needed for the shell of this house and shed are common boards, nails, a window sash, two pairs of hinges, hasp and staples for doors with padlock. Having these, with a hammer and saw you can very easily put up your house. You



need no frame. The edges of the boards placed close together and then covered with battens on the outside, is easy and good work. The roof of wide boards lapped. The door and the window shutter may be made of the same lumber.

Do not forget to have the padlock ready for use on the door.

The first idea of a poultry house should be to keep its inhabitants comfortable in both winter and summer. To do this is not a hard matter in summer; but in winter it requires more than a shell of boards.

The best material to use, on many accounts, is heavy tarred paper used on the inside of the house, lining both the wall and ceiling throughout.

This is a non-conductor of cold. It prevents both leakage of snow and rain, and the penetration of the cold winds. It is destructive to insects, also. It costs but little. It should even be a lining to the door.

Every poultry house should have a window in front with glass and shutter in the winter, and with a wire net for summer. It should be near the floor, so that the morning sun in winter may reach the poultry.

The door into the house should be under the shed, and in summer may be replaced by a door of wire net. It should be wide enough to admit freely an ordinary wheelbarrow.

The floor is the most important part of the house. It should be at least six inches above the ground on the outside of the house. It may be of hard packed earth, of boards, or of cement.

Although cement is cold, yet we prefer it. The proportions are 3 bushels of lime, 6 of sand, 3 of gravel, 1 of cement. This makes a hard, smooth floor, easily cleaned. We cover it with dry dust. ~

Around the outside the house should be

"banked" to keep out the cold in winter and the wet in summer and winter.

The land should slope away from the house and drainage should be carefully attended to. It is important that this should be done and the cost is nothing.

Make no attempt at ventilation. In summer it is provided and in winter it is not needed if the house is properly cleansed.

If it is desired to paint this house, mineral paint may be used of some dull color.

It is only as a preservative of the wood that it is of any value.

The entire cost of such a house will be about \$15.00 without the labor. Where a series are built it will be less.

We hear much in reference to extensive and beautiful poultry houses, and those who think of the business are often prevented by this prospective outlay. It is on this account that we have been thus particular and will here give the items.

600 feet of lumber @ 15	\$9.00
5 lbs of nails.....	.20
Hasp, Staples and Hinges...	.25
Padlock.....	.25
Sash.....	1.50
Tarred Paper.....	1.50
Wire Net.....	.50
Cement and Lime &c.....	1.80
	\$15.00

We have given here what we believe to be the best form of a poultry house for practical use, so far as the shell is concerned. The internal arrangements will be given hereafter.

Costly houses may be built to suit the fancy of those who have money and may be just as well for the production of eggs and the comfort of the poultry. They cannot be any better for these purposes. And the eye alone of the proprietor, his family and his friends will be gratified by the beauty which added cost may bring.

The ornamental embellishments of such buildings are not lost, if they bring pleasure to the builder and owner; for the object of spending money is to add to the happiness of life; and why not in this direction as well as in any other.

VENTILATION.

In ordinary chicken houses, it is impossible to keep out the air in cold weather; and if the droppings are carefully removed every morning and covered with dust, the atmosphere will not be polluted. We are not in favor of any elaborate system of ventilation.

It is our belief that houses in the summer should be open to the air, the wind and the sunlight. At night they should be closed, windows and doors, with wire net.

The conclusion is, that ventilation is for the most part a big humbug. If proper cleanliness is attended to—the droppings cared for—a plenty of dry dust given and used—the whitewash not forgotten—no provision need be made for special ventilation.

For The Maryland Farmer.

BED BUG EXTERMINATOR.

Editor Md. Farmer:

As this is the season to look out for bed bugs I send you the formula for a mixture that will prove cheap, effectual and odorless, if applied properly.

To one pint of strong brine—i. e. a saturated solution of common salt in water—add one ounce of corrosive sublimate, which will quickly dissolve, and it is ready for use—to be applied with a brush.

This will not stain or act on the varnish of furniture, like the solution of sublimate

in alcohol. The salt is also very offensive and destructive to the bugs.

A. P. SHARP,
Baltimore, Md.

BOOKS OF PETER HENDERSON.

Perhaps no books ever written were more practical than those of the late Peter Henderson. We can supply them to our subscribers post paid as follows:

	Cash.	Premiums for subscribers.
Gardening for Profit	\$2.00	4
Gardening for Pleasure	2.00	4
Practical Floriculture	1.50	3
How the Farm Pays	2.50	5
Garden and Farm Topics	1.00	2
New Hand Book of Plants, and General Horticulture issued Feb. 1, 1890.	4.00	8

There are always people to be found who are ready to act as brakes on the wheels who are not ready to get in the traces and pull the load.

Boys are sometimes tempted to think that to be tender-hearted is to be weak and unmanly. Yet the tenderest heart may be associated with the strongest and most forcible mind and will.

Learn from nature not to divide your energies unduly. Her compromises frequently look like failures. The land is good for men to live on; the sea is good for fishes to live in; but a sea marsh is good for neither, being too wet for men and too dry for fishes.

Every one must have felt that a cheerful friend is like a sunny day, which sheds its brightness on all around; and most of us can, as we choose, make of this world either a palace or a prison.

GARDEN AND ORCHARD.

We call especial attention to this list of Nurserymen, Seedsmen, Florists, etc. They all issue good Catalogues and will cheerfully send you one free, if you write referring to the Maryland Farmer. We believe every one of them to be reliable.—*Editor Md. Farmer.*

Wm. H. Moon,	Glenwood Fruit and Ornamental Nurseries. Morrisville, Pa.
D. H. Patty,	Nurseries, Geneva, N. Y. Agents Wanted.
Wiley & Co.	General Nurserymen and Importers, Cayuga, N. Y.
Northern Grown Seeds,	Northrup, Braslan & Goodwin Co. Minneapolis, Minn.
E. Moody & Sons,	Lockport, N. Y. Niagara Nurseries. Established 1839.
West Jersey Nursery Co.	Choicest New & Standard Fruits. Bridgeton, N. J.
P. Emerson,	Specialties—Peach, Pear & Apple Trees. Wyoming, Del.
H. W. Hales,	Ridgewood, N. J. New and Rare Plants.
Samuel C. Moon,	Morrisville, Bucks Co., Pa. Ornamental Trees & Shrubs.
Ellwanger & Barry,	Mount Hope Nurseries, Rochester, N. Y.
Lewis Roesch,	Grape Vines and Small Fruits. Fredonia, N. Y.
C. E. Allen,	Seeds, Plants, Fruits, Roses, Bulbs. Brattleboro, Vt.
Wm. Parry,	Nursery Stock; Small Fruits. Grapes, etc. Parry, N. J.
W. Atlee Burpee & Co.	Seeds and Thoroughbred Stock. Phil'a, Pa.
Thos. Meehan & Son,	Oaks, Rare Ornaments, Germantown, Pa.
Henry A. Dreer,	Seeds, Plants and Garden Supplies. Philadelphia, Pa.
Z. DeForest Ely & Co.	The Popular Seedsmen. Philadelphia, Pa.
W. M. Peters & Sons,	Peach Trees a Specialty. Wesley, Md.
Robert C. Reeves,	Seeds, Fertilizers, Implements. New York, N. Y.

E. B. Richardson & Co. Nurserymen. Salesmen wanted. Geneva, N. Y.

Delano Moore, Farm and Garden Seeds, Presque Isle, Aroostook Co. Me.

Diamond White Grape Co. Best White Grape ever introduced. Brighton, N. Y.

Price & Reed, Imported & Home grown Vegetable & Flower Seeds. Albany, N. Y.

E. & J. C. Williams, Nursery Stock, Grapes & Berries. Montclair, N. J.

Bush & Son & Meissner, Grape Vines. Bushberg, Mo.

Crosman Bros, Seeds & Plants, wholesale and retail. Rochester, N. Y.

W. D. Beatie, Fruits & Flowers, specially adapted to the South. Atlanta, Ga.

F. Barteldes, & Co. Kansas Seed House. Lawrence, Ks.

Miami, The best late Strawberry on Earth. J. D. Kruschke, Box 824. Piqua, Ohio.

Roop & Zile, Seed and Plant Growers. Westminster, Md.

Parsons & Sons Co. (Limited), Flushing, N. Y. Rare Trees & Shrubs.

Fred W. Kelsey, The best Trees, Shrubs, Roses and Plants, New York, N. Y.

P. J. Berckmans, Trees, plants, etc., adapted to the South. Augusta, Ga.

Frank Ford & Sons Seeds & Nursery stock. Ravenna, Ohio.

F. H. Mooers, Eastern grown Garden Seeds. Pittston, Maine.

Seed Potatoes, Standard old, choice new varieties. A. F. Whitright, Nova, O.

A. W. Livingston's Sons, Specialty, New Tomatoes. Columbus, O.

For the Maryland Farmer.

STRAWBERRIES.

The season is rapidly approaching when it will be one of the duties you owe to yourself and to your family, if you have

not already performed it, to set out a bed of strawberries in your garden, or somewhere on your farm.

The day is past when the farmer and his family should go without the dainties and luxuries which, with neither trouble nor expense, he can grow beside his door.

Of all things in this world, it is the greatest shame that the family must be deprived of the small fruits which are so easily grown, but which are so generally neglected.

Strawberries are as healthy as they are delicious, and have saved many a doctor's bill by their healing and strengthening acids. They are useful as well as beautiful, strengthening as well as luxurious.

It is no task to form a bed of them, for if they have half a chance they will grow and spread and give plenty of fruit.

Any one of your neighbors who has them will gladly supply you plants enough to make a commencement. Do not hesitate even if you are forced to buy a hundred or two plants. Get them and set them out, cultivate them and enjoy them. You will never regret it.

For the Maryland Farmer.

SETTING OUT.

Trees, Plants, Flowers, etc., etc.

Most of those who desire to add to their orchards take the Spring in which to do this work. Any time between the falling of the leaves in the autumn and the expanding of the leaves in the Spring, other things being favorable, may be employed in this work.

Large trees are sometimes moved during the winter; but then the preparations must be made in the fall, and a large ball of frozen earth must be taken on the roots to insure a reasonable prospect of success.

To one who is accustomed to transplant trees, success is a reasonable certainty, and

failure one of the things which tells of lack of experience, or care, in the person engaged in the work.

We are in earnest in our advice to set out as many orchard trees as you can readily obtain and of such a character as will be a good inheritance for yourself or your children in years to come.

Among these we believe no fruit has a larger profitable future than the Quince. Of course for many years to come if not always, the consumption of apples will be far beyond that of any other fruit; but we refer to the profit to be derived from orchards.

Make your plans now, and secure in advance all the plants you expect to use during the coming season. If you have not on your own farms made the necessary hot beds for plants, then do not delay the engagement of them from those who have raised them. You will want tomato, sweet potato, cabbage plants, etc.

We also advise that a liberal portion of small fruit plants be procured. The large majority of farms are destitute of small fruits, while almost the first question asked by customers who are speaking of any farm is in reference to these.

Among small fruits we have large faith in currants and gooseberries. It is always well to have an occasional gooseberry bush in the rows of currents; for they attract the moths and the currents escape in some measure.

In spring planting do not forget the flowers. They are the great source of innocent happiness. Of course they may not bring a large amount of money profit; but they do actually bring a profit in personal enjoyment which cannot be measured by money value. Let shrubs, and rose bushes, and perennial roots be your principal quest, but do not neglect even the annuals.

We believe in flowers. No family which

loves the flowers; but adds somewhat to the real blessings of life and is elevated thereby to a better, a brighter, a nobler experience in our earthly existence.

Entered as second class matter at Baltimore, Md.

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AND
NEW FARM.

Agriculture, Live Stock and Home Life.

**Oldest Agricultural Journal in Maryland and
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1.50 if not paid until the end of the year.

RATES OF ADVERTISING.

\$1.00 an inch, 12 lines nonpareil, each insertion.

Discounts, 10 off for 3 mos., 15 for 6, 20 for 9, 25 for 12

Advertisements to be inserted once a month

are subject to the same discount.

Covers, p. 2 add 30, 3 add 25, 4 add 50.

Special location, on any page, 20 per cent extra.

No reading notices free.

Reading notices twice the price of advertisements.

ISSUED EVERY WEEK.

CHEMICAL FALLACIES.

It is not generally known that many of our best chemists have pronounced the chemical analysis of soils of no account. Some have even gone so far as to declare that a ton of the best commercial fertilizer mingled with the surface soil of an acre cannot be detected in the chemical analysis.

Such an amount may, however, be all that is needed to produce the heaviest crops. Farmers are therefore all at sea once more in their scientific theories of cultivation.

This shows that only practical experience can be depended upon to insure results. No one can take a handful of

BURLINGTON ROUTE
TO THE WEST, NORTHWEST AND
SOUTHWEST.

No other railroad has through car lines of its own from Chicago, Peoria and St. Louis to St. Paul and Minneapolis, to Council Bluffs and Omaha, to Denver and Cheyenne and to Kansas City and St. Joseph. Tickets via the Burlington Route can be obtained of any ticket agent of its own or connecting lines.

Daisy Garden Plow
Daisy Cultivator
Daisy Seed Sower } are now at our office.

soil and tell in the laboratory what must be added to the field for any crop.

Science is good, but the voice of the crop itself is vastly better—nature tells her story while man's nicest tests are dumb.

THAT GREAT CORN CROP

A FAILURE.

The prize corn crop of 254 49-50 bushels at 75c, which is the extreme price which can be placed upon it, and the value of fodder @ \$15 make \$206.16. The cost of the crop was \$264.42. Thus the great corn crop was in fact a failure; for in light sandy land the fertilizer remaining can hardly be expected to pay a large profit on subsequent crops. The object in these contests should be the greatest amount of actual profit from the acre. Then they will be of practical value.

THIS WINTER.

An observing farmer tells us that the past winter has been very hard on stock on portions of the eastern shore of Maryland.

Very heavy fogs have prevailed there and these have had a bad effect upon stock. The barn yard fodder has often been mostly wasted, because the stock has had a nibble of green occasionally, enough to destroy their appetites for dry fodder. The stock is not looking as well, as healthy and as bright, as when the cold is steady and more uniform during the winter.

His own stock, although abundantly supplied with more than usual care, is looking worse than for many years past.

We invite our readers to send us—on postal cards if handy—any item of interest on any branch of farm work. We will make it useful in our columns.

We want to know of every successful crop and how it was raised; Of every failure and what caused it; How sweet ensilage is secured; Why some ensilage spoils; Of every new canning house or creamery erected. Send us all events in your neighborhood which will interest or instruct others.

JERSEY CATTLE.

In conversation with a thoughtful farmer the other day, we were favored with these words:

The introduction so generally of the Jersey Cows has been a curse to our country; for consider they are good for nothing as beef, they give very little milk and all their milk is good for is to make butter.

Now, he continued, many other breeds give more milk, and giving more milk produce as much butter, and when ready to kill are good beef. Farmers all over the country who have paid large prices for Jersey stock are sick of their bargains.

Brother farmers, is this so? Has the Jersey bubble bursted? Who can tell better than you? Give us the answer.

WRITING ADVERTISEMENTS.

Alden and Faxon, Newspaper Advertising Agents, Cincinnati, Ohio, have just issued a very neat List of the leading newspapers of the United States. The first 10 or 12 pages are devoted to advertisements, which they have written for various firms, and which have been prominent successes; also hints and suggestions to new advertisers. This firm make a specialty of writing advertisements, and of devising methods by which money can be made out of newspaper advertising. Judg-

ing by their little book, they have been eminently successful in this direction. This Newspaper List will be sent free on application.

THE LATEST POSTAGE STAMPS.

The one cent stamp contains a profile bust after Rubricht, of Benjamin Franklin, printed in ultramarine blue.

On the two cent stamp is a profile bust after Houdon, of George Washington, looking to the left, on an oval disc, printed in carmine.

The three cent stamp contains a profile bust, after Powers, of Andrew Jackson, on an oval disc, printed in purple.

The four cent stamp contains a portrait of Abraham Lincoln, after a photograph from life, three-quarters face, looking to the right. The color is chocolate.

On the five cent stamp is a portrait of Gen. Grant, after a photograph from life, three quarters face, looking to the right; color light brown.

The six cent denomination has a portrait of James A. Garfield, after a photograph from life, three-quarters face.

The ten cent stamp contains a portrait of Daniel Webster, after a daguerreotype from life, three-quarters face, looking to the left color milori green.

The fifteen cent denomination has a portrait of Henry Clay, after a daguerreotype from life. The color is deep blue.

On the thirty cent stamp is a profile bust of Thomas Jefferson, after Coracchi; color black.

The ninety cent denomination contains a profile bust of Commodore O. H. Perry, after Walcott's statue. The color is orange.

A MODEL CREAMERY.

We have received of A. H. Reid, Philadelphia, Pa., a large manufacturer of Creamery Supplies and Dairy Fixtures, whose advertisement appears in another column, a catalogue containing a clear illustration, description and plan of a new creamery which he has built and is now operating. It is built to operate on the Separator system, and is capable of handling the product of 500 cows, or of 12,000 pounds of milk per day. It has many labor saving inventions, which simplify and add to the efficiency of the working of the creamery. The catalogue also contains a description of a full line of Creamery Supplies and Dairy Fixtures. Persons interested in dairying and butter making, or those operating or about to build creameries, would do well to write to Mr. Reid for a catalogue.

Consumption Surely Cured.

To the Editor:—Please inform your readers that I have a positive remedy for consumption. By its timely use thousands of hopeless cases have been permanently cured. I shall be glad to send two bottles of my remedy FREE to any of your readers who have consumption if they will send me their Express and P. O. Address. Respectfully, T. A. SLOCUM, M. C., 181 Pearl St., N. Y.

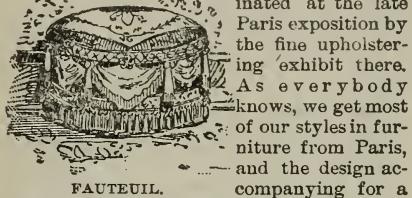
Feed slow people on ketch-up.

"Swans sing before they die." They have to, if they sing at all.

My little two-year-old has added something new to the story of Joseph and his brethren. I told him the Bible version of the story, and he seemed much interested in Joseph's coat of many colors. When I had finished, he said, "Papa tell me about his pants."

A FINE FAUTEUIL.

There is at present a great demand for draped articles of furniture and knickknacks in parlors and drawing rooms. It is said that this "fad" was originated at the late Paris exposition by the fine upholstering exhibit there.



FAUTEUIL.—A draped fauteuil comes direct from the showroom of a leading Paris upholsterer. The side under draperies are in dark goods, while the hangings are light enough to avoid somber effect. The square top piece can be in light plush, plain or prettily embroidered.

GATES FOR WIRE FENCES.

The application for fastening a barb wire gate without pulling one's arms and tearing their clothes into shreds is depicted in the cuts here reproduced from Farm and Fireside.

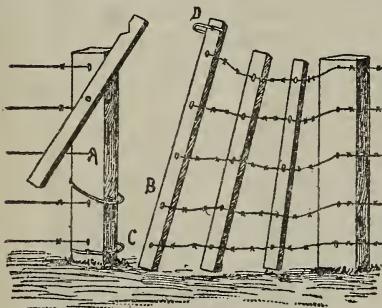


FIG. 1—BARB WIRE FENCE GATE.

In stretching your wire, let it run across the opening where the gate is wanted. Staple it fast to the gate posts with extra long staples. Set your braces as usual, then cut off the wires at post just outside of staples. Staple the gate wires to 2x2 inch stakes, with an oak 2x3 inch piece, B, at end of wires, with a small notch cut at upper end. Now cut two pieces of No. 16 plain wire, 48 inches long; fasten one to the bottom of the post, A, for bottom loop. Make a ring of the other, and with a staple fasten it to the top of stake, B. Cut a

Place your mark high for this season's work, and try your very best to reach it.

piece of oak scantling 2x4, 40 inches long; cut a notch $\frac{1}{2}$ inch deep, 2 inches from one end. Bore a $\frac{1}{4}$ inch hole through the 2 inch way, 14 inches from the notch. Bore a similar hole through post A, 11 inches from the top, from outside to inside, or vice versa.

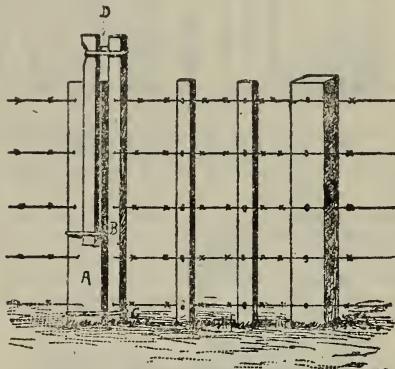


FIG. 2—BARB WIRE FENCE GATE.

Bolt the piece of 2x4 on the outside of post, with the notched side away from the gate. Run a piece of wire around the post and 2x4, and fasten with a staple on the outside of the post about two inches above the end of the 2x4 piece. When closing your gate, set the lower end of stake (B) in loop (C) and draw the upper end tight. Lower the upper end of lever (as in Fig. 1) so that ring (D) will pass easily over into notch. Straighten it up to its place, and fasten with wire at bottom.

SWINE.

A brood sow should have strong, tough bones. An all corn ration will not produce them. Professor Henry demonstrated that a corn made bone is much more easily broken than those grown from a mixed ration—a ration strong in albuminoids. In selecting breeding stock we would always want to know whether they are from a family noted for fertility. This is an inherited quality and cannot be too well established. Like all valuable qualities in any domestic animal, it is easily lost by bad management. It is also desirable that the parent stock be of a quiet disposition and even temperament.

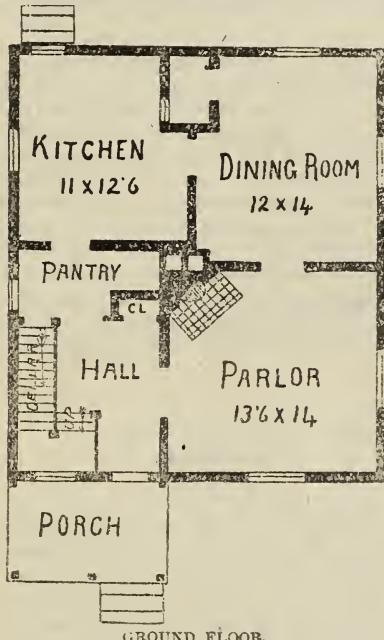
The Jersey red sows are noted as prolific breeders, probably more so than any other breed, and the genuine article in

its original home in New Jersey will feed to as large weights as any other breed. Unfortunately their beauty, or, rather, lack of it, has never recommended them to the masses of swine growers.

A \$1,600 HOUSE.

Nine Rooms, Well Constructed, and a Convenient Residence.

This house (designs of which are printed in Louis H. Gibson's "Convenient Houses," Thomas Y. Crowell & Co., N. Y.) was finished at a cost of less than \$1,600. This included, besides the house itself, a woodshed, well and cistern. There is a cellar under the hall and parlor. The building has a brick foundation and the wood work begins two feet above the grade. The stud walls of the exterior are lined first with dressed sheath-



ing, then with heavy building paper, and finally covered with weather boarding. The first and second tiers of joists are 2 by 10 inches; the ceiling joists of the second story are 2 by 8 inches. All of the studding is 2 by 4 inches. The windows have box frames, with iron weights and cotton cords. The first story is 10 feet high, the second 8½ feet. The interior finish is of pine, part of which is varnished and the remainder stained and varnished. The front door and stairway are of quartered oak.

The front porch is 10½ feet wide and 7½ feet deep, the hall 10 by 10½. It is an easy

An Organ for church, or parlor, or lodge room, or grange at lowest price and best terms. Write us.

Good Books For All!

The following books, each one of which contains a complete first-class novel or other work by a well known and popular author, are published in neat pamphlet form, printed from good readable type on good paper, and many of them handsomely illustrated. They comprise some of the finest works ever written by some of the greatest and most popular writers, both of America and Europe, and place the best literature of the day within the reach of the masses of the people. Please look the list carefully over and see if you do not find therein many that you desire to possess. Each one is complete in itself:

No. 165. **Wonders of the World, Natural and Other.** Containing descriptions and illustrations of the most wonderful works of nature and of man. Very interesting and instructive.

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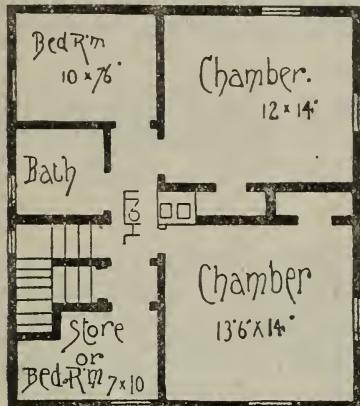
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The Maryland Farmer.

house to care for, because there is no waste space, and the rooms are readily accessible without extra steps. In the parlor, at the right of the hall, are two windows and a

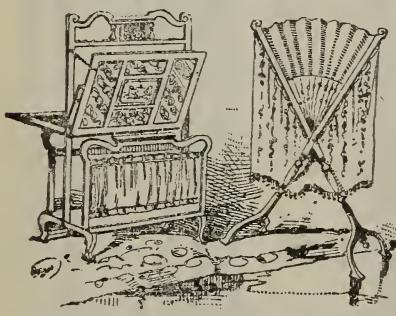


SECOND FLOOR.

grate; one window is in the front and the other at the side. The dining room is similarly equipped. It has a large china closet which connects with the table in the kitchen by means of a slide. The kitchen is $11\frac{1}{2}$ by 12 feet. It will be seen that there is a space for the kitchen range or stove near the flue, which does not conflict with the use of any other part of the kitchen. The pantry is quite convenient to the kitchen.

As to the bedrooms, there is a convenient place for bedroom furniture in all of them. There is at least a choice of two places for each bed, a space for a dressing case where it will get the best light, and room for a washstand. There is a closet in each bedroom of ample capacity.

Two Novel Screens.



SCREENS.

In the design given on the left of the picture is a new combination of newspaper rack and screen. That which in ordinary circumstances would be the central division of the rack is heightened and made to assume the character of a screen frame. The uprights should be about an inch or an inch and a quarter in thickness, in order to allow for the

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nair inch movable frames, which would back up to one another, the faces being flush with the surrounding wood work. Closed, the article would become an ordinary screen. It could be instantly converted into a portfolio stand by opening the screen panels upon the angle and securing them by brass chains and hooks. A convenient table is next obtained by further lowering the frames, which would then be supported upon the dwarf partitions in the front and rear of the central screen frame. Thus, without being at all complicated in construction or expensive in line, the combination would fulfill a threefold purpose.

The other screen is designed upon less pretentious and costly lines. It represents an extremely simple application of the fan principle, and answers the requirements of a folding screen. Upon the face of it, the action is so simple that it is not necessary to indulge in a lengthy description. It is pretty and effective in appearance.

PIG TROUGH.

Most farmers think that any kind of a trough is good enough for a hog to drink from. Be that as it may, everybody knows that as soon as any liquid is turned in the trough all the hogs in the inclosure crowd about the spout to obtain the first taste, the weaker ones being obliged to wait until the bottom

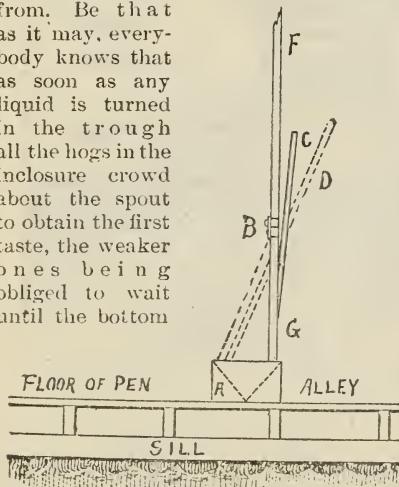


FIG. 1—PIG TROUGH.

of the trough is flooded ere they can quench their thirst or appease their hunger. All this crowding and unequal feeding may be regulated, says a correspondent in *Rural New Yorker*, by the simple appliance shown in Fig. 1.

A trough, A, is located beside a fence or division in the pen, a board, G, about a foot and a half wide is hinged to the portion at B. When feeding is to be done

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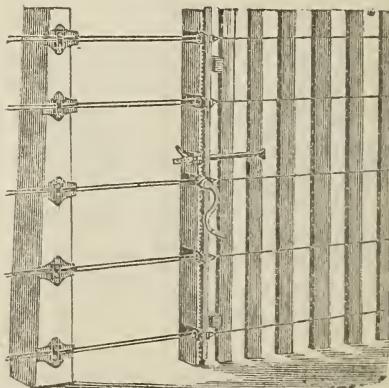
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S. H. GARRETT, Mansfield, O.

pull on the handle C when the position indicated by the dotted lines is assumed; you can then pour in the swill or coarser feed and distribute it evenly in the trough. The handle C is released and the occupants simultaneously commence eating.

The plan shown of Fig. 2 is intended to prevent crowding. The top of the trough is divided in separate apartments by cleats, as shown. They should be made of hard wood with rounded edges and firmly nailed not more than one foot apart. The plan shown at Fig. 1, while more expensive, is well worth the extra outlay.

The following summary of results as obtained by Professor Hunt, of the Illinois College farm, in his experiments, can hardly fail to be of interest:

It required 13.89 pounds of skim milk to produce one pound of pork when fed with corn meal, ratio 1 1-7 to fattening hogs.

It required on an average 4½ pounds of shelled corn to produce a pound of pork during an average period of four weeks, or one bushel produced 13½ pounds.

It required 4½ pounds of corn meal to produce one pound of pork, or one bushel of corn made into meal and fed will produce 12½ pounds of pork.

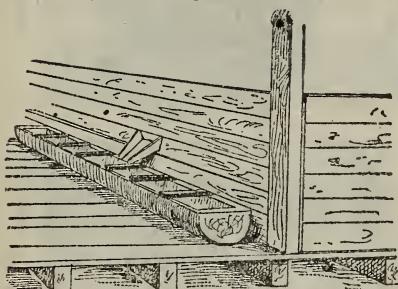


FIG. 2—PIG TROUGH.

When fed dry, shelled corn is more economical than corn meal to feed fattening hogs.

It required 7½ pounds, or one-fourth bushel, of ground oats to produce one pound of pork, when fed with equal parts by weight of corn meal.

One bushel of corn is worth nearly three bushels of oats as food for fattening hogs.

Corn fed pigs gained 4½ pounds per week, and ate about 21 pounds of corn per 100 pounds of live weight.

Indian corn is the most economical pork producing material during the winter months in regions where extensively grown.

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ELDORADO, A NEW YELLOW RADISH.

These new varieties are catalogued by Peter Henderson & Co. with novelties worthy of trial, and are thus described: The Eldorado is identical with the old favorite, scarlet turnip radish, in shape, size and quality, but is a golden yellow in color. The yellow radishes are now coming into more general use, as these make an attractive contrast with the red varieties on the table. New Celestial is a distinct variety, the stock of which was imported from China. It is ready for use when 2½ to 3 inches long, and continues until nearly 6 inches long, making it almost an all seasons radish. It may be grown in open ground or for forcing in frames. Rapid Forcing radish resembles the scarlet turnip, white tipped variety, but is earlier, coming into maturity at about twenty-two days from time of sowing. Having very small tops, it is adapted for forcing, though is equally desirable for the garden. Thanks are due to the firm quoted for the cut here presented.

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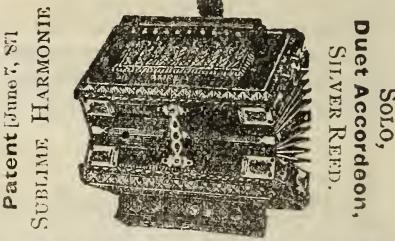


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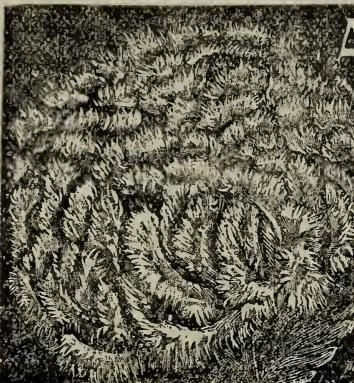
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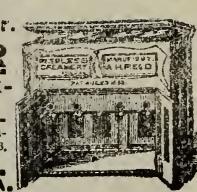
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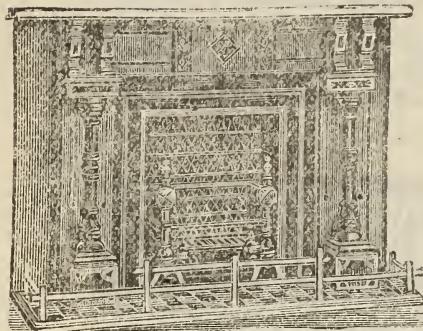


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